

Auditing Test Report

Test Report No.: SA13-4043/17

Date 10/01/2024

Client

Saudi Vitrified Clay Pipe Co.
P.O. Box 6415
Riyadh 11442
Kingdom of Saudi Arabia

Sampling Date: 06/01/2024

Test Date: 07/01/2024

Auditing Purpose:

Testing of Vitrified Clay Fittings according to EN 295-1:2013

Size Description:

Nominal Size: Y- Junctions (DN 100mm up to and including DN 700 ES)
Jointing System: System F & C

Description of Sampling

Samples were collected randomly from the stock at the client's manufacturing works in Riyadh (Kingdom of Saudi Arabia) by the agent of the Suhaimi - Fugro

Underlying specification /description of the tests

- EN 295-1:2013 "Vitrified clay pipe systems for drains and sewers - Part 1: Requirements for pipes, fittings & joints"
EN 295-2:2013 "Vitrified clay pipe systems for drains and sewers - Part 2: Evaluation of conformity and sampling"
EN 295-3:2012 "Vitrified clay pipe systems for drains and sewers - Part 3: Test Methods"



Test Results of Y- junctions

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Y-Junction Type	Internal Diameter (mm)		Length (Req. : Nominal length ^{+4%} _{-1%})		Branch Angle		Water Tightness (L/m ²)		Air Tightness (mm)		Joint Interchangeability (mm)	
	Req.	Actual	Nominal Length	Actual	Req.	Actual	Req.	Actual	Req.	Actual	Req.	Actual
100 mm / 100 mm	≥ 96	99	450	455	45° ± 5	42	No leak	5	131 ± 1.5	131.7	131.7	131.7
150 mm / 100 mm	≥ 146	149		451		50						
200 SS / 100 mm	≥ 195	203	500	505	46	No leak	5	260 ± 0.5	260.4			
200 ES / 100 mm		198		506	41	No leak	0	275 ± 0.5	275.2			
200 SS / 150 mm		200		505	48	No leak	5	260 ± 0.5	260.4			
200 ES / 150 mm		201		501	49	No leak	10	275 ± 0.5	275.4			
250 SS / 150 mm		≥ 244		250	510	48	No leak	11	317.5 ± 0.5	317.7		
250 ES / 150 mm		249		502	45	No leak	8	341.5 ± 0.5	341.6			
300 SS / 150 mm	≥ 293	300	1000	505	50	No leak	9	371.5 ± 0.5	371.2			
300 ES / 150 mm		302		506	43	No leak	0	398.5 ± 0.5	398.9			
350 ES / 150 mm	≥ 341	351	600	505	48	No leak	8	459 ± 0.5	459.4			
400 SS / 150 mm	≥ 390	400		1009	49	No leak	9	483.5 ± 0.5	483.5			
400 ES / 150 mm	402.1	1008	47	No leak	4	515.5 ± 0.5	515.4					
450 ES / 150 mm	≥ 439	448	1005	48	No leak	10	579 ± 0.5	579.3				
500 SS / 150 mm	≥ 487	502	1000	1000	42	No leak	0	605 ± 0.5	605.3			
500 ES / 150 mm		501		998	40	No leak	11	637 ± 0.5	637.2			
600 ES / 150 mm	≥ 585	602	600	1005	42	No leak	0	758 ± 0.5	758.4			
200 SS / 200 SS	≥ 195	201		610	48	No leak	8	260 ± 0.5	260.3			
250 SS / 200 SS	≥ 244	251	1000	603	48	No leak	10	317.5 ± 0.5	317.6			
250 ES / 200 SS		248		605	49	No leak	6	341.5 ± 0.5	341.3			
300 SS / 200 SS	≥ 293	301	600	604	42	No leak	11	371.5 ± 0.5	371.8			
300 ES / 200 SS		305		600	46	No leak	15	398.5 ± 0.5	398.6			
350 ES / 200 SS	≥ 341	352	1000	605	47	No leak	4	459 ± 0.5	459.4			
400 SS / 200 SS	≥ 390	401		1010	48	No leak	11	483.5 ± 0.5	483.4			
400 ES / 200 SS	401	1005	49	No leak	6	515.5 ± 0.5	515.8					
450 ES / 200 SS	≥ 439	452	1000	41	No leak	2	579 ± 0.5	579.3				
500 SS / 200 SS	≥ 487	504	600	1005	42	No leak	13	605 ± 0.5	605.4			
500 ES / 200 SS		500		1007	42	No leak	10	637 ± 0.5	637.2			
600 ES / 200 SS	≥ 585	598	450	1002	45	No leak	5	758 ± 0.5	758.3			
100 mm / 100 mm	≥ 96	102		455	46	No leak	14	131 ± 1.5	132.2			
150 mm / 150 mm	≥ 146	151	500	505	47	No leak	10	186 ± 2.0	186.5			
200 SS / 200 SS	≥ 195	202	600	602	44	No leak	14	260 ± 0.5	260.4			
200 ES / 200 ES		201	612	613	47	No leak	18	275 ± 0.5	275.4			
250 SS / 250 SS	≥ 244	249	740	744	41	No leak	17	317.5 ± 0.5	317.2			
250 ES / 250 ES		250	800	802	44	No leak	13	341.5 ± 0.5	341.1			
300 SS / 300 SS	≥ 293	301	810	812	42	No leak	11	371.5 ± 0.5	371.4			
300 ES / 300 ES		300	900	902	43	No leak	10	398.5 ± 0.5	398.9			
350 ES / 350 ES	≥ 341	349	1000	1004	44	No leak	10	459 ± 0.5	459.4			
400 SS / 400 SS	≥ 390	401	1000	1007	45	No leak	8	483.5 ± 0.5	483.2			
400 ES / 400 ES		406	1100	1101	48	No leak	11	515.5 ± 0.5	515.5			
450 ES / 450 ES	≥ 439	451	1225	1226	44	No leak	10	579 ± 0.5	579.4			
500 SS / 500 SS	≥ 487	501	1350	1344	46	No leak	20	605 ± 0.5	605.4			
500 ES / 500 ES		502	1350	1349	43	No leak	22	637 ± 0.5	637.4			
600 ES / 600 ES	≥ 585	600	1575	1576	45	No leak	21	758 ± 0.5	758.2			
700 ES / 700 ES	≥ 682	699	2000	2020	48	No leak	19	871 ± 0.5	871.4			

FUGRO - SUHAIMI LTD
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